

DFU



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

RENEKER, D. et al.

Serial No: 10/595,402

Filed: April 14, 2006

For: CARBON NANOTUBES ON CARBON
NANOFIBER SUBSTRATE

Group Art Unit: unknown

Confirmation No: 8684

Examiner: unknown

CERTIFICATE OF MAILING

I hereby certify that this correspondence was deposited with the United States Postal Service as First Class addressed to: Mail Stop Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on June 22, 2006.


Angela Gamble, Sec'y to George W. Moxon, II

TRANSMITTAL SHEET


Enclosed are the following documents:

Information Disclosure Statement (Form 1449) 5 pages
Copy of 1 cited reference
Return Receipt Postcard

AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT

The Director is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 50-0959 (089498.0474).

Respectfully submitted,


George W. Moxon II, Reg. No. 26,615
Roetzel & Andress
222 S. Main St.
Akron, Ohio 44308
(330) 376-2700

23
June 22, 2006



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of

5

Complete if Known

Application Number	10/595,402
Filing Date	April 14, 2006
First Named Inventor	RENEKER, D.
Art Unit	
Examiner Name	
Attorney Docket Number	089498.0474

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US- 5,346,683	9/13/1994	Green et al.	
	AB	US- 5,457,343	10/10/1995	Ajayan et al.	
	AC	US- 5,482,601	1/9/1996	Ohshima et al.	
	AD	US- 5,560,898	10/1/1996	Uchida et al.	
	AE	US- 5,627,140	5/6/1997	Fossheim et al.	
	AF	US- 5,641,466	6/24/1997	Ebbesen et al.	
	AG	US- 5,648,056	7/15/1997	Tanaka	
	AH	US- 5,695,734	12/9/1997	Ikazaki et al.	
	AI	US- 5,698,175	12/16/1997	Hiura et al.	
	AJ	US- 5,753,088	5/19/1998	Oik	
	AK	US- 5,773,834	6/30/1998	Yamamoto et al.	
	AL	US- 5,780,101	7/14/1998	Nolan et al.	
	AM	US- 5,866,434	2/2/1999	Massey et al.	
	AN	US- 5,916,642	6/29/1999	Chang	
	AO	US- 5,965,267	10/12/1999	Nolan et al.	
	AP	US- 5,976,477	11/2/1999	Isoda et al.	
	AQ	US- 5,993,697	11/30/1999	Cohen et al.	
	AR	US- 6,062,931	5/16/2000	Chuang et al.	
	AS	US- 6,063,243	5/16/2000	Zettl et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	WO 02/05365	1/17/2002	Johnson Matthey Public		

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for 2025-1449/PTO

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2
-------	---

of	5
----	---

Complete if Known

Application Number	10/595.402
--------------------	------------

Filing Date	April 14, 2006
-------------	----------------

First Named Inventor	RENEKER, D.
----------------------	-------------

Art Unit

Examiner Name

Attorney Docket Number	089498.0474
------------------------	-------------

U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AT	US- 6,090,363	7/18/2000	Green et al.	
	AU	US- 6,110,590	8/29/2000	Zarkoob et al.	
	AV	US- 6,129,901	10/10/2000	Moskovits et al.	
	AW	US- 6,139,919	10/31/2000	Eklund et al.	
	AX	US- 6,156,256	12/5/2000	Kennel	
	AY	US- 6,157,043	12/5/2000	Miyamoto	
	AZ	US- 6,162,926	12/19/2000	Murphy et al.	
	BA	US- 6,183,714	2/6/2001	Smalley et al.	
	BB	US- 6,203,814	3/20/2001	Fisher et al.	
	BC	US- 6,203,864	3/20/2001	Zhang et al.	
	BD	US- 6,210,800	4/3/2001	Nesper et al.	
	BE	US- 6,221,330	4/24/2001	Moy et al.	
	BF	US- 6,231,980	5/15/2001	Cohen et al.	
	BG	US- 6,232,706	5/15/2001	Dai et al.	
	BH	US- 6,250,984	6/26/2001	Jin et al.	
	BI	US- 6,265,333	7/24/2001	Dzenis et al.	
	BJ	US- 6,270,946	8/7/2001	Miller	
	BK	US- 6,278,231	8/21/2001	Iwasaki et al.	
	BL	US- 6,280,697	8/28/2001	Zhou et al.	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

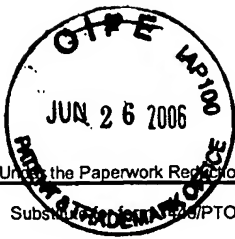
Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND**

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substantive Examination/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 5

Complete if Known

Application Number	10/595,402
Filing Date	April 14, 2006
First Named Inventor	RENEKER, D.
Art Unit	
Examiner Name	
Attorney Docket Number	089498.0474

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	BM	US- 6,283,812	9/4/2001	Jin et al.	
	BN	US- 6,297,592	10/2/2001	Goren et al.	
	BO	US- 6,303,016	10/16/2001	Diener et al.	
	BP	US- 6,312,303	11/6/2001	Yaniv et al.	
	BQ	US- 6,325,909	12/4/2001	Li et al.	
	BR	US- 6,339,281	1/15/2002	Lee et al.	
	BS	US- 6,346,189	2/12/2002	Dai et al.	
	BT	US- 6,354,133	3/12/2002	Yedur et al.	
	BU	US- 6,358,375	3/19/2002	Schwob	
	BV	US- 6,359,383	3/19/2002	Chuang et al.	
	BW	US- 6,361,861	3/26/2002	Gao et al.	
	BX	US- 6,362,011	3/26/2002	Massey et al.	
	BY	US- 6,382,526	5/7/2002	Reneker et al.	
	BZ	US- 6,383,923	5/7/2002	Brown et al.	
	CA	US- 6,395,199	5/28/2002	Krassowski et al.	
	CB	US- 6,400,088	6/4/2002	Livingston et al.	
	CC	US- 6,401,526	6/11/2002	Dai et al.	
	CD	US- 6,403,876	6/11/2002	Ghoshal et al.	
	CE	US- 6,420,293	7/16/2002	Chang et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4

of

5

Complete if Known

Application Number	10/595,402
Filing Date	April 14, 2006
First Named Inventor	RENEKER, D.
Art Unit	
Examiner Name	
Attorney Docket Number	089498.0474

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	CF	US- 6,422,450	7/23/2002	Zhou et al.	
	CG	US- 6,432,866	8/13/2002	Tennent et al.	
	CH	US- 6,437,329	8/20/2002	Yedur et al.	
	CI	US- 6,452,171	9/17/2002	Moloni	
	CJ	US- 6,455,847	9/24/2002	Yedur et al.	
	CK	US- 6,457,350	10/1/2002	Mitchell	
	CL	US- 6,461,528	10/8/2002	Scherer et al.	
	CM	US- 6,465,132	10/15/2002	Jin	
	CN	US- 6,465,813	10/15/2002	Ihm	
	CO	US- 6,473,351	10/29/2002	Tomanek et al.	
	CP	US- 6,479,028	11/12/2002	Kaner et al.	
	CQ	US- 6,491,789	12/10/2002	Niu	
	CR	US- 6,495,116	12/17/2002	Herman	
	CS	US- 6,495,258	12/17/2002	Chen et al.	
	CT	US- 6,504,292	1/7/2003	Choi et al.	
	CU	US- 6,512,235	1/28/2003	Eitan et al.	
	CV	US- 6,514,113	2/4/2003	Lee et al.	
	CW	US- 6,515,325	2/4/2003	Farnworth et al.	
	CX	US- 6,515,339	2/4/2003	Shin et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Project of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/595,402
Filing Date	April 14, 2006
First Named Inventor	RENEKER, D.
Art Unit	
Examiner Name	
Attorney Docket Number	089498.0474

Sheet 5 of 5

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	CY	US- 6,515,415	2/4/2003	Han et al.	
	CZ	US- 6,515,639	2/4/2003	Martinez	
	DA	US- 6,520,425	2/18/2003	Reneker	
	DB	US- 6,524,707	2/25/2003	Rasmussen	
	DC	US- 6,528,020	3/4/2003	Dai et al.	
	DD	US- 6,528,785	3/4/2003	Nakayama et al.	
	DE	US- 6,531,828	3/11/2003	Yaniv et al.	
	DF	US- 6,559,550	5/6/2003	Herman	
	DG	US- 2003/0111334	6/19/2003	Dodelet et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.